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**LOG OF MEETING  
DIRECTORATE FOR ENGINEERING SCIENCES**

SUBJECT: National Electrical Code, Code-Making Panel 2 Meetings to discuss comments to revise Articles 210, 215, and 220.

DATE OF MEETING: December 11-13, 2000

PLACE OF MEETING: Crowne Plaza Hotel, Phoenix, AZ

LOG ENTRY SOURCE: Doug Lee, ESEE *NMHC for D.L.*

DATE OF LOG ENTRY: December 21, 2000

COMMISSION ATTENDEES: Doug Lee, ESEE

NON-COMMISSION ATTENDEES:

- Jean O'Connor, National Fire Protection Association (NFPA)
- James Carpenter, International Association of Electrical Inspectors (IAEI)
- Ernest Broome, IAEI
- Donald Nissen, Underwriters Laboratories (UL)
- Susan Porter, UL
- Michael Toman, National Electrical Contractors Association (NECA)
- Charlie Marshall, Int'l Brotherhood of Electrical Workers (IBEW)
- Jim Pauley, National Elec. Mfrs. Assoc. (NEMA)
- Dan Kissane, NEMA
- James Jones, Institute of Electrical & Electronics Engineers (IEEE)
- Dick Becker, IEEE
- Albert Sidhom, US Army
- Ernie Howell, Independent Electrical Contractors (IEC)
- Robert Wilkinson, IEC
- Thomas Harman, University of Houston
- Pat Roche, Celanese Acetate
- Morrie Trimmer, University of Florida
- Charlie Crawford, Edison Electric Institute (EEI)
- Bob Moore, EEI
- Joe Wienagen, National Association of Home Builders (NAHB)
- Gil Moniz, NEMA
- Steve Campolo, Leviton
- Tom Packard, Pass & Seymour
- George Gregory, Square D
- Ray Mullin, Ray Mullin Books
- Joe Engel, Eaton/Cutler-Hammer
- Ron Nickson, NMHC
- John Young, Siemens

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FEDERAL ENERGY REGULATION  
COMMISSION

John Goodsell, Hubbell  
John Wafer, Eaton/Cutler-Hammer  
Jack Wells, Pass & Seymour  
Howard Wenc, NECA  
Dave Dini, UL  
Bill Schallhammer, UL  
Paul Dobrowsky, Eastman Kodak Co.  
Ed Lawry, IAEI  
Frederic Hartwell, Econoline  
Bernard Schwartz  
Ned Schiff, Technology Research Corporation (TRC)  
Richard Cripps, Association of Home Appliance Mfrs. (AHAM)  
James Stallcup, Sr., Grayboy  
James Stallcup, Jr., Grayboy  
Saul Rosenbaum, NEMA  
C. Trout

#### SUMMARY OF MEETING:

Mr. Lee participated in discussions of comments received by the NFPA on proposals to revise the 1999 edition of the *National Electrical Code (NEC)*, Articles 210, 215, and 220. The new edition will be known as the 2002 edition. The topics covered included branch-circuits, feeders, and branch-circuit, feeder, and service calculations. The CPSC technical staff submitted three proposals that were reviewed by Code-Making Panel 2 (Panel 2).

One of the CPSC staff's proposals (*NEC* proposal No.2-119) that would require arc-fault circuit-interrupters (AFCIs) for older homes when the electrical service is upgraded received some support but was below the 2/3rds required for acceptance. At this time, Panel 2 was not willing to expand the scope of AFCI installations until receipt of performance data on the 1999 NEC requirement for AFCIs on bedroom branch circuits.

The second CPSC staff proposal (*NEC* proposal No. 2-44) was to require a safety-enhanced, reset-lockout type ground-fault circuit-interrupter (GFCI) for outdoor receptacles on residences where the risk of ground-fault shock is high. Although this proposal received considerable support from electrical inspectors by written comments, it also did not receive the 2/3rds required for acceptance. Panel 2 stated that the *NEC* requires GFCI protection in various locations of electrical installations. However, the panel believed the requirements to improve the GFCI reliability should be addressed in the product standard and not the *NEC*.

The third CPSC staff proposal (*NEC* proposal No. 2-143) was to address a product safety issue to limit appliance listed ratings in order to prevent overloading in branch circuits. Panel 2 agreed with the CPSC staff's concern and stated that any one cord- and plug-connected utilization equipment should not exceed 80 percent of the branch-circuit rating, regardless of whether the load is continuous or non-continuous.

Code-Making Panel 2 discussed and acted upon 145 comments on proposals. The proposals are

included in the "National Electrical Code Committee Report on Proposals", published by NFPA for the 2001 May Association Meeting. Ballots during the meeting are provisional until the final balloting is conducted by mail. Details of the disposition of the 145 comments and proposals will be published subsequently by the NFPA. The CPSC staff is a non-voting member of the *NEC* Code-Making Panel 2.